



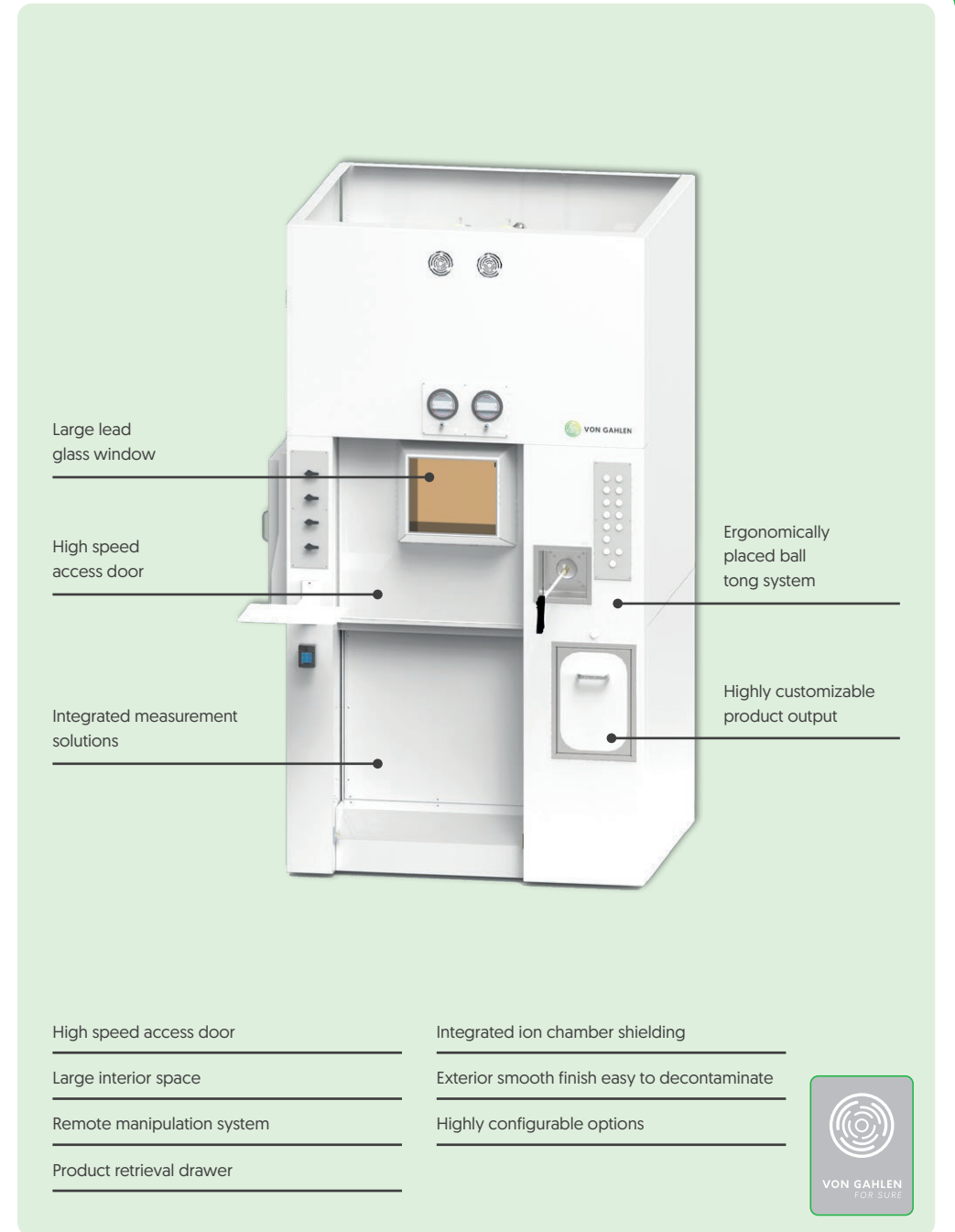
# RESEARCH HOT CELL WITH TONG

The research hot cell model is Von Gahlen's most versatile hot cell. Over 45 years of shielding design experience has led to a hot cell design that can meet any research and manufacturing requirement, while maintaining compliance with cGMP standards. The HCT can be configured to meet any laboratory layout with various hot cell connections, a large lead glass window providing full view of the interior, air environmental control, multiple product manipulation and product retrieval options.

As a standard this cell is fitted with basic gas connections. Behind the vertical motor driven lead shielded door, the hinged acrylic door maintains airtight integrity. The main compartment is shielded with 75 mm of lead on all sides. The internal stainless steel box with rounded corners is easy to clean.

Several options such as various gas taps, laptop support and ion chamber lift are available for the HCT.

Variant	HCT
Outside dimensions [mm] [W*D*H]	± 1.600*1.214*2.650
Inside dimensions [mm] [W*D*H]	± 1.200*820*744
Door speed	60 mm/s
Door opening [mm] [W*H]	± 686*576
Air inlet	DN40 with HEPA filter, including valve
Air outlet	DN40, including valve
Air exhaust	max 20 m <sup>3</sup> /h
Power connection in accordance with local requirements	
Exterior smooth finish: traffic white [RAL 9016], easy to decontaminate	
Total weight:	± 8.000 kg





## STANDARD FEATURES

### Operator / product safety

- 75 mm lead shielding in all walls, roof and floor.
- Internal stainless steel box 316L, optimal micro-surface treatment.
- Interior finish complies with pharmaceutical regulations for cleaning and validation.
- Low voltage control panel for all controls.

### Functions

- Vertical motor driven lead shielded door with safety interlocks in front wall.
- Hinged acrylic door with special seals to maintain airtight integrity.
- Large lead glass window:  $\pm 350*300$  mm [W\*H], 75 mm lead equivalent.

- Analog gauge for displaying the internal pressure of the hot cell.
- Ball tong manipulator in front wall.
- Retrieval drawer for collection of product vial incl. Von Gahlen Type A transport container.
- Basic gas connections: three technical gasses and one compressed air.
- Target line shielding: 75 mm lead.
- Compression block including back shielding for custom entry of tubes and cables.
- Two duplex electrical outlet inside the box, switched per duplex from control panel.
- External duplex electrical outlet under hot cell.
- Internal light fixtures switchable from control panel.
- Steel structure built to support all components, lead is not used for any structural support.

## OPTIONAL FEATURES

- Extended gas regulation.
- Storage cabinet beneath main compartment.
- Solid waste vault.
- Local Laminar air flow area.
- Digital pressure gauge instead of analog gauge.
- Internal HEPA / Charcoal filter.
- External shielded HEPA / Charcoal filter.
- Ionization chamber shield for dose calibrator, 50 mm or 75 mm lead.
- Ionization chamber lift.
- Foot pedal control for ionization chamber lift.
- Universal support (outlet, cable pass through, arm for laptop or ion chamber control unit).
- Glove ports in shielded front door with hinged plugs
- Glove ports in acrylic door.
- Radiation detection system including safety interlock on front door.
- Side door opening:  $\pm 206*246$  mm [W\*H].
- Extended cover plates to specified height.

